



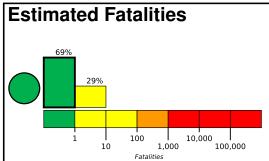


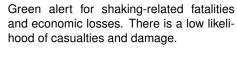
Created: 3 weeks, 2 days after earthquake

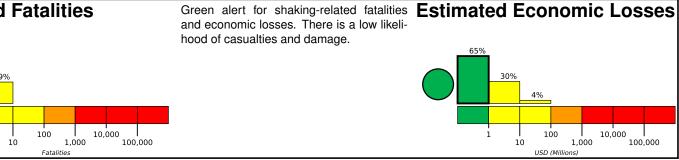
**PAGER** 

Version 7

# **M 4.5, 7 km NW of Medford, Oklahoma** Origin Time: 2022-01-31 17:10:20 UTC (Mon 11:10:20 local) Location: 36.8579° N 97.8003° W Depth: 5.0 km







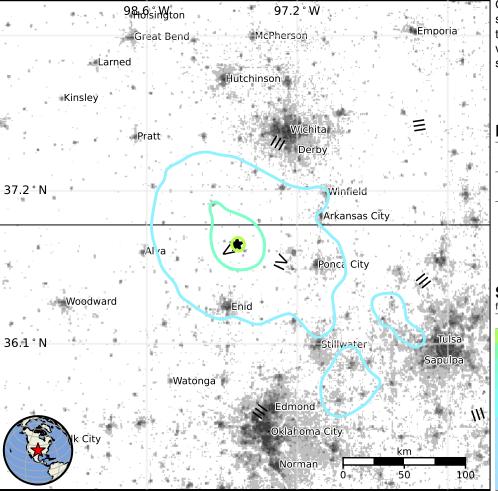
**Estimated Population Exposed to Earthquake Shaking** 

-	POPULATION E (k=x1000)	_*	3,720k*	262k	5k	0	0	0	0	0
ESTIMATEI MERCALLI	MODIFIED INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVE	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
DAMAGE	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

<sup>\*</sup>Estimated exposure only includes population within the map area.

## Population Exposure

population per 1 sq. km from Landscan 5000



Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

### **Historical Earthquakes**

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	Date	Dist.	Mag.	Max	Shaking
	(UTC)	(km)		MMI(#)	Deaths
	1974-02-15	261	4.6	IV(8k)	_
	1997-09-06	273	4.5	V(3k)	_

## **Selected City Exposure**

MMI	City	Population
V	Medford	1k
٧	Anthony	2k
IV	Caldwell	1k
IV	Ponca City	25k
IV	Sand Springs	19k
IV	Harper	1k
Ш	Wichita	382k
Ш	Tulsa	392k
Ш	Broken Arrow	99k
Ш	Oklahoma City	580k
Ш	Norman	111k

bold cities appear on map.

(k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.